

# Xinger.

## Directional Couplers 10 dB

# 1904-10 Arcore 10 1906-10

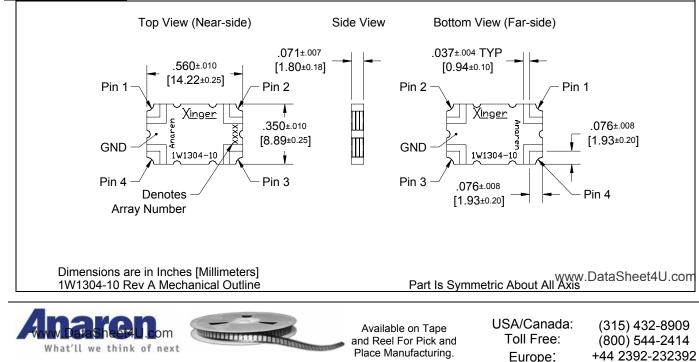
#### **Description**

The 1W1304-10 is a low profile 10dB directional coupler in an easy to use surface mount package covering the AMPS and GSM bands. The 1W1304-10 is ideal for power and frequency detection as well as power injection and can be used in most high power designs. The 1W1304-10 has modified RF pads which can handle higher peak power levels than the standard Xinger designs. Also, the new RF pad improves manufacturing reliability and minimizes the risk of failures due to misalignment from pick and place equipment. Parts have been subjected to rigorous qualification testing and units are 100% tested. They are manufactured using materials with x and y thermal expansion coefficients compatible with common substrates such as FR4, G-10 and polyamide.

#### **ELECTRICAL SPECIFICATIONS\*\***

Frequency	Mean Coupling	Insertion Loss	VSWR	Freq. Sensitivity
MHz	dB	dB Max	Max:1	dB Max
869 – 894	10.0 ± 0.5	0.25	1.17	±0.15
925 – 960	$10.0 \pm 0.5$	0.25	1.17	±0.10
800 - 1000	10.0 ± 1.0	0.25	1.17	±0.40
Directivity	Power Handling	ΘJC	Operating Temp.	
dB Min	Watts	°C / Watt	°C	
18	150	10.6	-55 to +85	
18	150	10.6	-55 to +85	
18	150	10.6	-55 to +85	

\*\*Specification based on performance of unit properly installed on microstrip printed circuit boards with 50  $\Omega$  nominal impedance. Specifications subject to change without notice.



### Outline Drawing

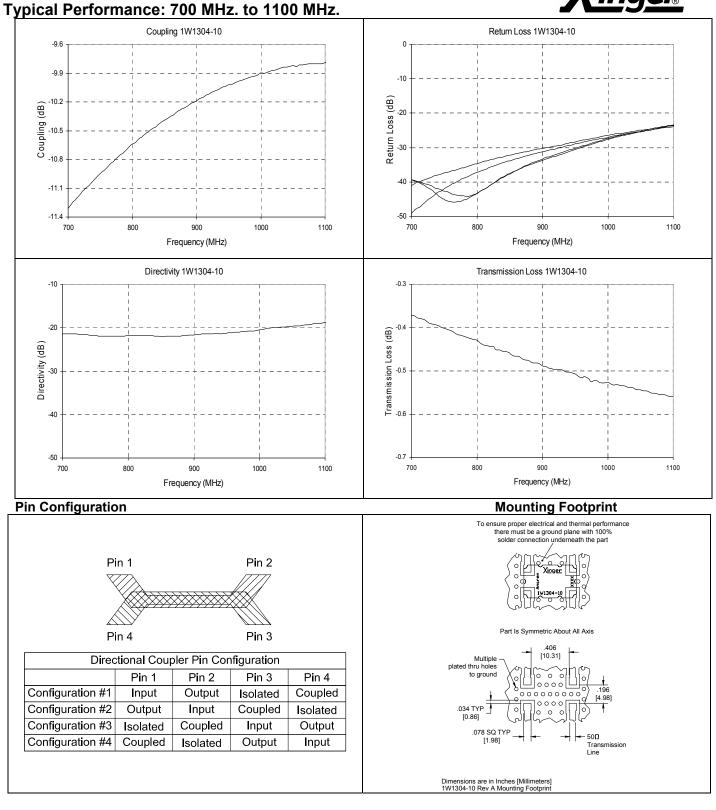
Features:

800 – 1000 MHz Low loss High Directivity Surface Mountable Tape And Reel Convenient Package

100% Tested



Xinger.



USA/Canada: Toll Free: Europe: (315) 432-8909 (800) 544-2414 +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.

